

## 25mΩ R<sub>ON</sub> 3A High Side One Channel Load Switch in 1mm X1mm WLCSP package

### Features

- 25m ohm R<sub>ON</sub>
- 3A continuous operating current
- 1mm X 1mm 4-pin, pin pitch 0.5mm WLCSP package
- Input voltage range 1.5V to 5.5V
- Internal level shift for CMOS/TTL control logic
- Ultra low quiescent current
- Micro-power shutdown current
- Soft-start.
- Load discharge circuit..
- Ultra fast turn off time
- With reverse voltage block function.

### Applications

- Cellular phones
- Portable Navigation Devices(PND)
- Personal Media Players (PMP)
- Ultra Mobile PCs
- Portable instrumentation
- Other Portable applications
- PDAs
- Industrial and DataComm equipment

### General Description

The G5192C/D is a family of high-side load switches designed to operation from 1.5V to 5V input voltage. The load switch pass element is an internal 25 ohm R<sub>ON</sub> P-channel MOSFET which enable the device to support up to 3A of continuous current. Additionally, the load switch supports 1.5V.

Logic level control and shutdown features in a tiny 1mm X 1mm 4 pin WLCSP package.

The G5192C/D provide a slew rate controlled soft-start turn on of 100μs. The soft-start feature is provided to prevent an in-rush current event from pulling down the input supply voltage.

The G5192C/D feature an active load discharge circuit which switches in a 200Ω load when the switch is disabled to automatically discharge a capacitive load.

An active pull-down on the enable input keeps the G5192C/D in a default OFF state until the enable pin is pulled above 1.2V. Internal level shift circuitry allows low voltage logic signal to switch higher supply voltages.

The enable voltage can be as high as 5.5V and is not limited by the input voltage.

The G5192C/D with reverse voltage block function, if the VIN disappears or VIN is less than VOUT; device will turn off without leakage current.

The G5192C/D operating voltage range makes them ideal for Lithium ion and NMH/NiCad/Alkaline battery powered systems as well as non-battery powered applications. The device provides low quiescent current and low shutdown current to maximize battery life.

### Ordering Information

ORDER NUMBER	MARKING	SPEC	PACKAGE (Green)
G5192CB11U	5x C	Soft start	WLCSP2x2-4
G5192DB11U	5x D	Soft start & Load discharge	WLCSP2x2-4

Note: B1: WLCSP2x2-4

1: Bonding Code

U: Tape & Reel

### Pin Configuration

